

JAPANESE PATENT

What is claimed is:

1. A lens shape measuring apparatus, comprising:
 - a lens fixing jig installed in a lens to be processed to clamp the lens;
 - 5 a lens rotation shaft for clamping and rotating the lens to be processed;
 - a measuring element abutted on a refracting surface of the lens clamped by the lens rotation shaft;
 - 10 a measuring unit for measuring a moving distance of the measuring element; and
 - 15 arithmetic control means for identifying a shape of the lens fixing jig based on the moving distance of the measuring element measured by the measuring unit.
 2. A lens shape measuring apparatus according to claim 1, wherein said lens rotation shaft is swung to be brought close to/separated from said measuring element.
 - 15 3. A lens shape measuring apparatus according to claim 1, wherein said measuring element includes a pair of feelers to be brought into contact with the lens to be processed.
 - 20 4. A lens shape measuring apparatus according to claim 1, wherein said measuring unit includes a measuring element moving amount detecting mechanism.
 - 25 5. A lens shape measuring apparatus according to claim 1, wherein said arithmetic control means controls said lens rotation shaft according to a measuring element moving amount detecting signal of said measuring unit.
 6. A lens shape measuring apparatus according to claim 1, wherein

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said arithmetic control means measures a size of an outer shape of
said lens fixing jig based on a signal from said measuring unit.

7. A lens shape measuring apparatus, comprising:

5 a lens fixing jig installed in a lens to be processed to clamp the
lens;

a lens rotation shaft for clamping and rotating the lens to be
processed;

10 a measuring element abutted on a refracting surface of the lens
clamped by the lens rotation shaft;

15 a measuring unit for measuring a moving distance of the
measuring element in a direction roughly parallel to the lens rotation
shaft; and

20 arithmetic control means for moving a tip of the measuring
element relatively in the direction roughly parallel to the lens rotation

25 a lens shape measuring apparatus, comprising:
15 a lens fixing jig installed in a lens to be processed to clamp the
lens;

a lens rotation shaft for clamping and rotating the lens to be
processed;

20 a measuring element abutted on a refracting surface of the lens
clamped by the lens rotation shaft;

25 measuring element rotating means for controlling rotation of
the measuring element around a rotation shaft roughly parallel to the

lens rotation shaft;

a measuring unit for measuring a moving distance of the measuring element in a direction roughly parallel to the lens rotation shaft; and

- 5 arithmetic control means for rotating a tip of the measuring element around the lens rotation shaft, and identifying a shape of the lens fixing jig based on a distance of the abutted position of the tip of the measuring element from a measuring element reference position.